SHORMANN MATHEMATICS

TEACHER GUIDE

PDF



ALGEBRA 1
WITH INTEGRATED GEOMETRY

DAVID SHORMANN, PHD

DIVE

Parents: Course Setup & Login

While the instruction, grading, and Q&A support are provided, a parent or teacher should supervise to ensure the student follows the course instructions and check their written work. Don't worry! You don't need to do any grading or know anything about math! Simply follow these steps:

1. Please watch with your student: Getting Started

2. **CRITICAL**: Read Parent Responsibilities & How to Check Student Work

3. Decide: Hybrid Offline Method for Practice Sets

4. To ensure your device is setup for our eLearning system, please follow the: Computer & Device Setup Instructions

5. Print these Student Instruction Sheets:

- Reading Assignment Instruction
- Note-Taking Instruction Sheet
- Practice Set Instruction Sheet
- Quiz Instruction Sheet
- Study for Exams Instruction Sheet

6. Read: The Timed Method, Algebra Prep Drills, & Family Grading Subscription

7. Required Materials:
   - Ruler & Drawing Compass or the free Geometry App
   - Select a Recommended Calculator
   - A 2-inch binder and 3-hole paper (blank or college-ruled). Lecture notes, corrections and homework may be done in this binder. OR
     A spiral notebook with college-ruled paper for lectures and corrections plus copy paper for homework lessons
   - Small spiral notebook (4x6) for formulas

8. After you receive the login email, follow the steps under **PARENTS** to continue setting up the course. To find out when your login email will be sent, see: eCampus

9. There is no separate parent login. Parents use the same login the student uses. Learn More.

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Shormann Math combines tried and true teaching methods with 21st Century technology. It is a user-friendly course with video lectures, interactive homework, automated grading, grade recording, video solutions, and Q&A email support.

Shormann Algebra 1 and 2 integrate 1 full credit of geometry. When finished with both, one full credit of algebra 1, 2, and geometry are earned! All the concepts required for a variety of standardized tests, including the redesigned PSAT and SAT, ACT, and the CLEP College Algebra and College Mathematics exams, are taught, then continually reviewed, developing fluency and raising test scores.

After completing Shormann Algebra 1 and 2, students can spend 2-3 weeks using our CLEP Professor College Algebra, a short prep course included in the Shormann Algebra 2 eCourse, to prepare for the CLEP exam and earn up to 3 college credits.

My primary goal is to teach students how math connects to their world and their Creator. I do this by teaching math as the language of science and a tool for understanding God and the world He created. In doing so, I pray that our courses will strengthen the student's relationship with Christ in ways that will help them be productive members of society who seek to glorify God in all they do!

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Important Resources

Grade Changes and Resets

Ask Dr. Shormann a Homework, Test, or Quiz Question

Contact Tech Support

Contact a Consultant

Official Course Descriptions

NCAA

Advanced Placement

Transcripts & Credit

Pre-requisites

Pre-Algebra (any publisher), Saxon Math 8/7, or Saxon Algebra 1/2

Take the Placement Test

Credits

1 Algebra 1 Credit

1/2 Geometry Credit

Course Description

Shormann Algebra 1 with Integrated Geometry teaches all the concepts required for a 21st Century integrated Algebra 1 and Geometry course, including simplifying algebraic expressions, solving equations (linear and quadratic) and linear systems. Standard geometry concepts include proof, logic, Euclidean geometry and perimeter/area/volume. Other topics include measurement, computer math, technology applications, statistics and a gentle introduction to basic calculus. This course has 100 lessons, 26 weekly quizzes, and four quarterly exams. Official Course Description and Credits

- Shormann Algebra 1 Scope and Sequence
- Assignment Chart

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Honors or Standard Course Options

Shormann Algebra 1 teaches all the topics required for an honors level course (Scope & Sequence). However, it is easily modified for use as a standard course by using the Standard Grade Scale. Also, our unique teaching methods of incremental bite-sized lessons and continual review, along with the Timed Method and state-of-the-art eLearning tools like instant feedback and Help links, make learning math faster and easier! Therefore, Shormann Algebra 1 is for everyone!

Learn More: **Credits & Transcripts** **Honors Course Descriptions**

Honors Grade Scale	Standard Grade Scale
A – 93-100	A – 90 -100
B –84 – 92	B –80 – 89
C – 74 – 83	C – 70 – 79
D – 65 – 73	D – 60 – 69
F – 64 or below	F – 59 or below
I – Incomplete	I – Incomplete

Using Shormann Math in a Classroom or Co-op

- Shormann Math for Schools
- How to use Shormann Math in a Co-op

Standardized Test Prep

While *Shormann Math* helps students use math to become more creative like their Creator, glorifying Him and serving others, it also provides excellent preparation for standardized tests. By the time a student finishes *Shormann* Algebra 1 and 2, they will have covered all the math concepts presented on the redesigned PSAT and SAT, as well as the ACT, CLEP College Algebra and CLEP College Math exams! **The Math section of the PSAT & SAT contributes 50% of the total score!**

From Lessons 26-100, Practice Set problem #15 will ask a question about a concept covered on either the SAT, ACT, CLEP College Math, or CLEP College Algebra exam. These concepts will only appear in the Practice Set after they have been taught in a lesson. Learn more at the link below. PSAT, SAT, and ACT Test Prep Recommendations

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Parent Responsibilities

While the eLearning course provides all the instruction and grading, it is the parent's responsibility to check their student's work to ensure the student is using the course as directed and to supervise students during the 4 exams. Please follow these steps after each lesson is completed: How to Check Student Work

Optional: Hybrid Offline Method for Practice Sets

In the eLearning course, students should solve each problem on paper before entering their answers. However, some students struggle with guessing. This can be solved by supervising your student and/or checking their handwritten work against the solutions manual (available upon request). Students can use the PDF of the textbook to complete Practice Sets on paper, then login to the eLearning system to enter their answers for grading and grade recording. For details, see: Hybrid Offline Method

Scheduling

Shormann Algebra 1 is set up on a 30 week schedule. Since a school year is generally 36 weeks, there are six additional weeks that can be used when extra time is needed to grasp a concept. A good way to ensure the student has time to relearn, as needed, is to use the timed method (below). Strong math students should work on math a minimum of 4 days per week and struggling or reluctant math students should work on math a minimum of 5 days per week.

Timed Method: Frustration Free Math

Working beyond the brain's developmental ability to retain and process new information has the same effect as skipping the material. This leads to "careless" mistakes, frustration, and gaps in understanding.

Before starting math each day, set a timer for one hour. At the end of this time, regardless of how much of the lesson is completed, stop and have them pick-up where they left off the next day.

This allows the student to learn at their own pace, giving them extra time, when needed, to grasp a new concept or relearn forgotten concepts by rewatching video lessons, studying the help links, etc. When a student is **required** to complete a

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lesson per day, they quickly realize that going back and relearning forgotten concepts can make the lesson last longer and they will likely skip this critical step. I cannot overemphasize the importance of relearning in the process of developing fluency (speed and accuracy). As fluency develops, the student will complete more and more of the lesson each day. Learn More: How will they finish on time?

Two or Three Semester Course

Because one and a half credits are earned (1 Algebra 1 and ½ Geometry), this course can also be completed in up to three semesters. The eLearning subscription is good for 24 months so every student can successfully complete the course.

Don't Expect Immediate Mastery

I strongly discourage incorporating "immediate mastery" methods into Shormann Math (Saxon Math, too!). For example, some parents and teachers will not let the student progress to the next lesson unless they have completely mastered the current lesson. This can cause discouragement and exasperation as well as negatively affect fluency.

Just like in sports or music, it takes time to learn a skill. Most students need to practice a skill over several days before mastery is achieved. That's why the Practice Sets review previous concepts over a long period of time. So, please use the system like it was designed, and give your student time to patiently practice and build their skills!

Focus on Fluency

Fluency means speed and accuracy. The only way to develop fluency is by practicing the skill correctly over a long period of time. Think of a baseball pitcher or a concert pianist. How many times do they practice the same pitch or piece? How many times do they do it wrong while they are learning? Don't be surprised when your child gets the same problem wrong multiple times while they are learning. The key is to relearn the concept and try again.

Conversely, giving the solution before relearning will erode mastery. So instead of "helping" or letting the student see the answer, encourage students to relearn by using the links above each Practice Set question. There is a link to a similar example problem and a link to the video lecture that teaches that concept. If they still don't understand, they should skip it as they will relearn by watching the video solutions and solving the problem correctly on paper. In the beginning this process may be slow and laborious. Be patient, use the timed method, and eventually math will become faster and easier!

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Course Components

I. **Lessons:** A daily lesson consists of 3 parts:
   - Read Rules and Definitions: Instruction Sheet
   - Video Lecture: Instructions for Lectures
   - Practice Set:
     - Hybrid Offline Instructions
     - Practice Set Instructions

II. **Quizzes:** Quiz Instruction Sheet

III. **Quarterly Exams:** Quarterly Exams Instruction Sheet

IV. **eTextbook:** A printable PDF of the complete textbook with the full lesson and practice sets. It is linked on the Course Home page under "Resources". A hard copy can be purchased here: Textbook

V. **Solutions Manual for Practice Sets:** To prevent student access, this is available by sending an email from the parent email address to support@diveintomath.com with the student's username and course title.

Optional Resources for Purchase:

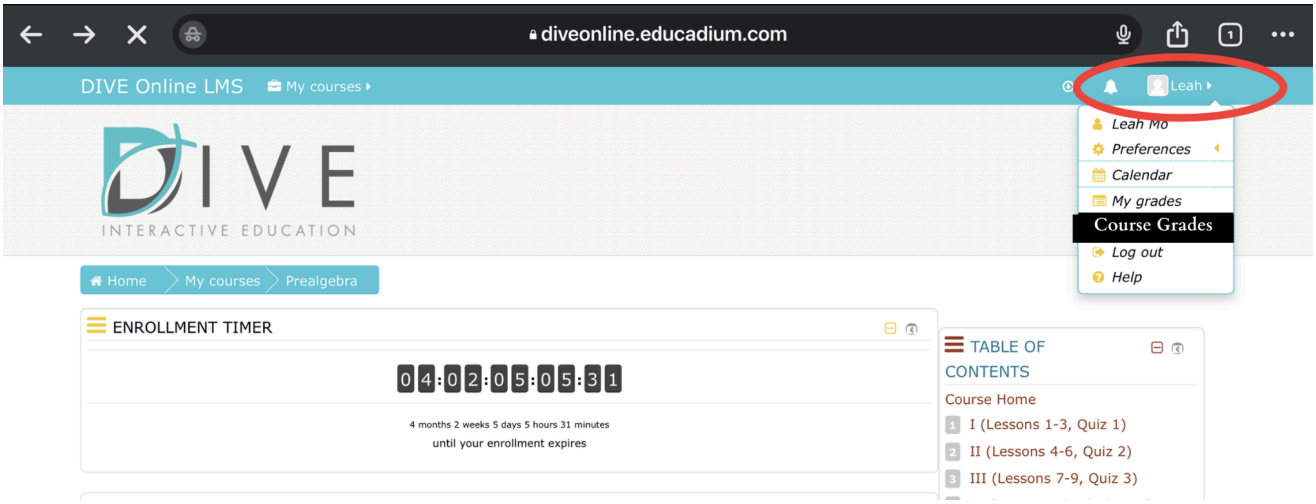
- **Family Grading Subscription:** Allows parents to login to one account to view all of their children's grades and allows them to change grades and reset assignments for all of their students. Learn More
- **Hard Copy of the eTextbook**
- **Hard Copy of the ePractice Set Booklet**

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Online Grade Book & Grading

Note: If your student has a learning disability or you are not using the course as instructed (skipping assignments, giving more time on exams, etc.), also see the Learning Disabilities section below.

1. Login using the same login as the student, select “My Courses” in the top menu, then select the course title.
2. In the top right corner, select the student’s name, then “Course Grades”.



3. The grade book will open.

Grade Book: Joe Smith

Your Student's Grades — *Average Grade of All Students in this Course*

Assignments	Grade	Percentage	Class Average
Grading Shormann Prealgebra			
Lesson 1 Practice Set	90.00	90.00 %	86.95
Lesson 2 Practice Set	85.00	85.00 %	84.59
Lesson 3 Practice Set	95.00	95.00 %	91.60
Quiz 1(Lessons 1-3)	10.00	100.00 %	9.71
Lesson 4 Practice Set	90.00	90.00 %	93.36
Lesson 5 Practice Set	97.50	97.50 %	94.04
Lesson 6 Practice Set	92.50	92.50 %	91.64
Quiz 2(Lessons 4-6)			

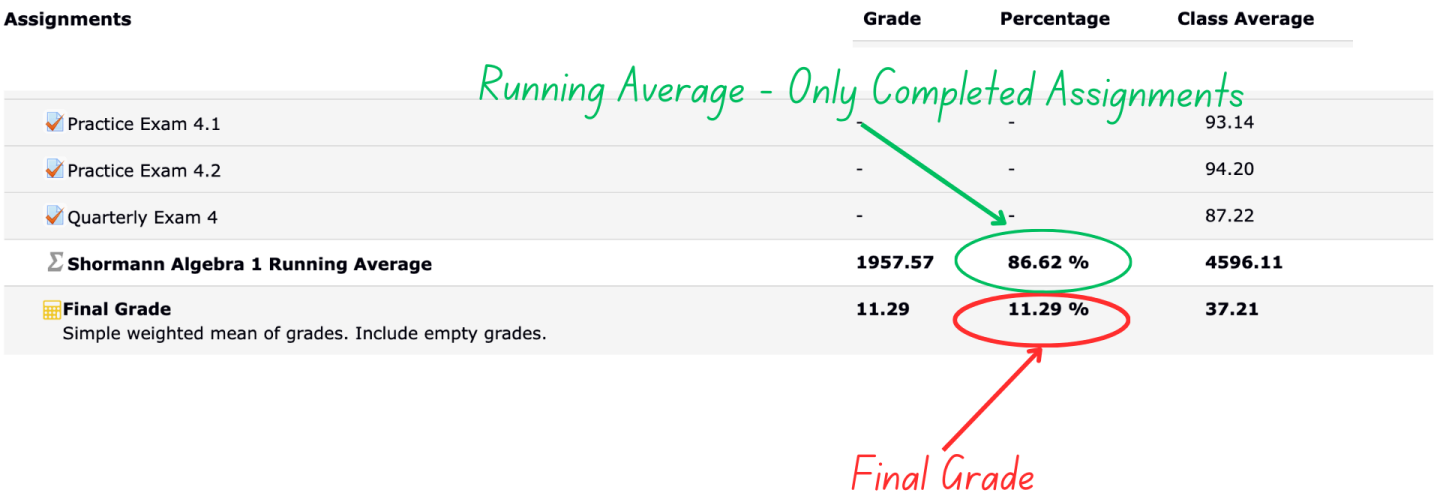
Grade: This is your student's grade in points.

Percentage: This is your student's grade as a percentage.

Class Average: This is **NOT** your student's grade. It's the average grade of ALL the students who have taken this assignment.

Running Average:

Scroll down to the bottom of the grade book and find the Running Average. This is the grade for all the assignments that have been completed so far. It does not include the zero for assignments that have not been completed. So, as long as the student has not skipped any assignments, this is where you would see the student's current grade based on the assignments they have completed.



Final Grade:

This is the grade used at the end of the course for the final grade. It includes the zeros for assignments that were not completed. In this example, only a few of the assignments have been completed so the final grade is very low. At the end of the course, if all assignments are completed, the Final Grade and Running Average are the same. If they are not, see "Issues" below.

Add Extra Credit to the Final Grade

For details, see "Optional Extra Credit" below.

Transcripts & Credits

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For a free transcript template and detailed instructions, see Transcripts & Credits

ISSUES WITH THE GRADE BOOK

Issue 1: Final Grade and Running Average Are Not the Same

This means one or more assignments were not completed. Scroll through the grade book and look for assignments in the "Percentage" column that don't have a grade. See the next section to resolve this issue.

Issue 2: No Grade in the Percentage Column

1. Select the title of the assignment in the Grade Book.
2. If there is a button that says "Continue Last Attempt", this means the student opened and/or started the assignment but did click Submit All & Finish. Select the "Continue Last Attempt" button, "Finish Attempt" then, "Submit All & Finish".
3. If there is a "Start Quiz" button, this means the student did not start the assignment. You can either leave it as a 0 or have the student do the assignment, which will raise the final grade.

Grade Weights

The following describes how the grades are “weighted”.

Practice Sets & Practice Exams: 30%
Weekly Quizzes: 30%
Quarterly Exams: 40%

Optional: Add Extra Credit

Keep in mind, as the parent and/or teacher, you are responsible for assigning grades. Our grade book is a tool to help you. You are not required to use the grades in the eLearning grade book or follow any of our recommendations. Use the course like you would any other textbook based curriculum, like Abeka or Bob Jones.

We don’t recommend adding extra credit for correcting missed Practice Set problems as they have already had 4 attempts at each question where they can earn partial credit. For example, if they solve the problem on paper then, enter their answer and it is wrong, they can use the help links above each question to re-learn the concept, correct their work, then enter their answer again. If they get it right, they get partial credit for that answer. If they get it wrong, they get two more attempts to earn partial credit..

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Because Practice Sets are just practice, they are a smaller percentage of the overall grade. Therefore, adding extra credit is like giving double extra credit. However, if would like give extra credit, here are some options:

Option 1: Add up to 3 points to the Final Grade in the Grade Book. (The final grade should not be more than 100.)

Option 2: Use the "Simplified Grading Method" below.

This extra credit cannot be added to the grade book. Simply add the points to your student's final grade, then put the new grade on the Certificate of Completion (see below).

Certificate of Completion

Upon course completion, a certificate of achievement can be printed. Go to the Course Home page, scroll down the left menu, then click ***Certificate***. There are detailed instructions on how to save, edit, and print the certificate.

Learning Disabilities: How to Modify the Timed Quizzes and Exams

While we cannot change the timer on the exams or quizzes, you can give the student more time by following these steps. We also have a new Family Grading Subscription that allows parents to change grades and reset assignments for all of their students.

Quizzes: How to Modify the Time

Parent Supervision Required: After the first attempt, the Results Page with all the answers is displayed. Quizzes have a 20 minute time limit and four questions which only takes most students about 10 minutes. So you may want to try it normally first. To double the time to 40 minutes, follow these steps:

1. The student should study using the Study Instructions just above the link to the quiz.
2. Have the student take the quiz twice. In the first attempt, complete only the first two questions. In the second attempt, complete the last two questions.
3. Add the scores of each attempt. Then, do one of the following:
    i. Use the "Simplified Grade Recording Method" below.
    ii. Use the new Family Grading subscription that allows parents to change grades and reset assignments. See: **Family Grading**
    iii. Use the "Request Grade Change & Resets" form to request a grade change.
4. **Critical:** Have the student correct missed problems by following the steps on the "Quiz Instruction Sheet", linked above the quiz.

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Exams: How to Modify the Time

The exams are limited to one hour. This method doubles the time to two hours.

1. Study using the “Study Instruction Sheet” linked just above the exam.
2. Have the student take the exam twice. In the first attempt, complete only the first half of the exam. In the second attempt, complete the second half. This gives the student 2 hours to complete the exam.
3. Add the two scores together.
4. Have the student correct all missed problems on paper.
5. Optional: If you want to compensate for the fact that students normally get two full attempts and the grades are averaged, you can do the following: If they correct all missed problems, add 100 points to their grade and divide by two. So if they made a 40 on attempt 1 and 45 on attempt 2, their grade would be 85+100 divided by 2 = 92.5.

6. For grade recording you can do one of the following:
    i. Use the “Simplified Grade Recording Method” below.
    ii. Use the new Family Grading subscription that allows parents to change grades and reset assignments. See: **Family Grading**
    iii. Use the "Request Grade Change & Resets” form to request a grade change.

Grading for Learning Challenged Students

Because students with learning challenges often require many accommodations, grade changes, and resets, we offer two options to simplify grade recording:

i. Use the "Request Grade Change & Resets” form to request a grade change.

ii. Instead of submitting multiple grade change requests:
    - Use the “Simplified Grade Recording Method” below.
    - Use the new Family Grading subscription that allows parents to change grades and reset assignments. See: **Family Grading**

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Simplified Grading Method

If you allow your student to skip assignments, modify the time for learning disabilities, etc, the online grade book will not accurately calculate a final grade. Instead, you can either use the Family Grading Subscription or use this simple method to give a completion grade of 90 for all Quizzes and Practice Sets. This way, you don't need to submit multiple grade change requests or manually record all the scores. All you need to record are the four exam grades. Then, use the formula below. This new grade can be added to the Certificate.

Exam Average: Add the exam grades and divide by 4.
Final Grade = **Exam Average (.40) + 54**
For Example: If the exam average is a 70, it would be: 70 (.40) + 54 = 82

To use a different completion grade for the Practice Sets and Quizzes, use this formula: Final Grade = Exam Average (.40) + Completion Grade (.60)

To calculate an exact score manually, record all the grades, then use this formula:

Exam Avg. (.40) + Quiz Avg. (.30) + Practice Set Avg. (.30)

You can also request a grade change for each assignment by using the "Request A Grade Change Form" on the Course Home page.

Results of Former Students

Why do results matter?

Shormann Math builds on a solid foundation of time-tested teaching methods, including the incremental development + continual review format pioneered by John Saxon(1923-1996). And not just Saxon's teaching methods, but his teaching thoughts as well, including his thought that "Results, not methodology, should be the basis of curriculum decisions."

One of the primary reasons John Saxon developed his math curriculum in the 1980s was because new ways of teaching math were not working. Math "educrats" at the time were promoting their untested "visions" of math teaching. But with 3 engineering degrees, John was a math user before he became a math teacher. Not

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only that, he was a test pilot. If anyone knew the extreme value and importance of testing a new product, it was John!

Results matter because they reveal whether or not a new product really works. And while statistics certainly don't reveal everything about a new product, they can certainly reveal many things. **Most math curricula don't provide this level of detail on student performance.** We are pleased to provide it for you.

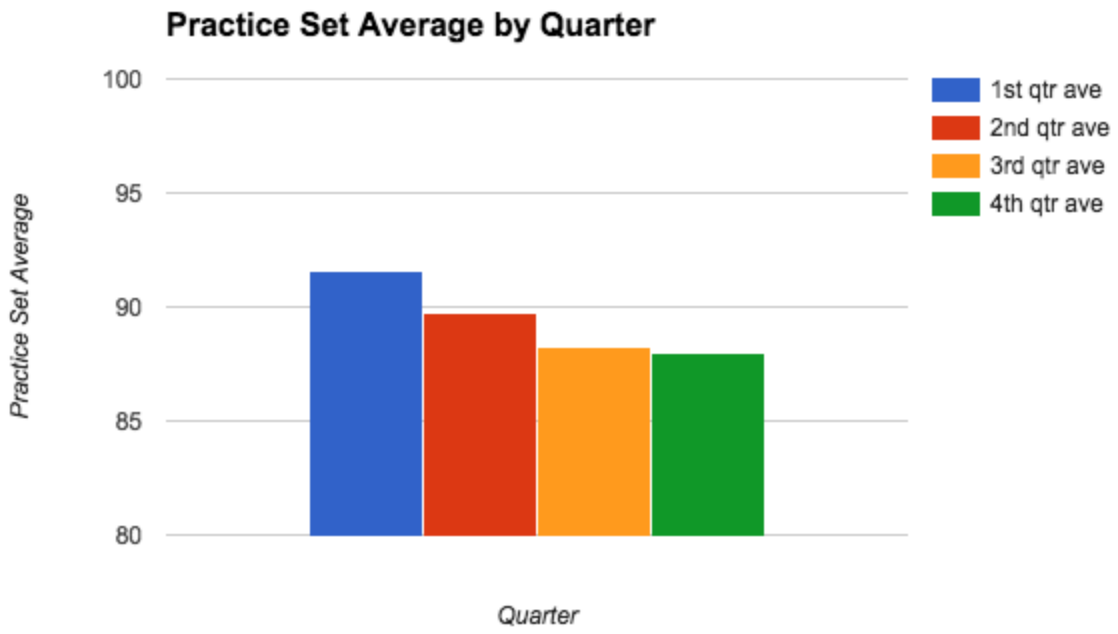
Overall performance

Overall Average	**90.3%**
Range(lowest to highest)	**81.0-97.9%**
% Students making an A(90%+)	**67%**

Discussion: The average student in our beta test made an A in the class! Because each new Shormann Math course is beta-tested in a live online class setting, Dr. Shormann gets to know the students on more than just a "numbers only" basis. And we all know that God doesn't make clones, so the fact that not every student performed the same should not be a surprise. Natural talent definitely matters, but so do things like attitude and maturity. Dr. Shormann spends time during the video lectures encouraging students to develop fruits like patience and self-control (Galatians 5:22-23), as well as persevering with joy (James 1:2-3), and gratefulness (I Thessalonians 5:18).

Practice Sets

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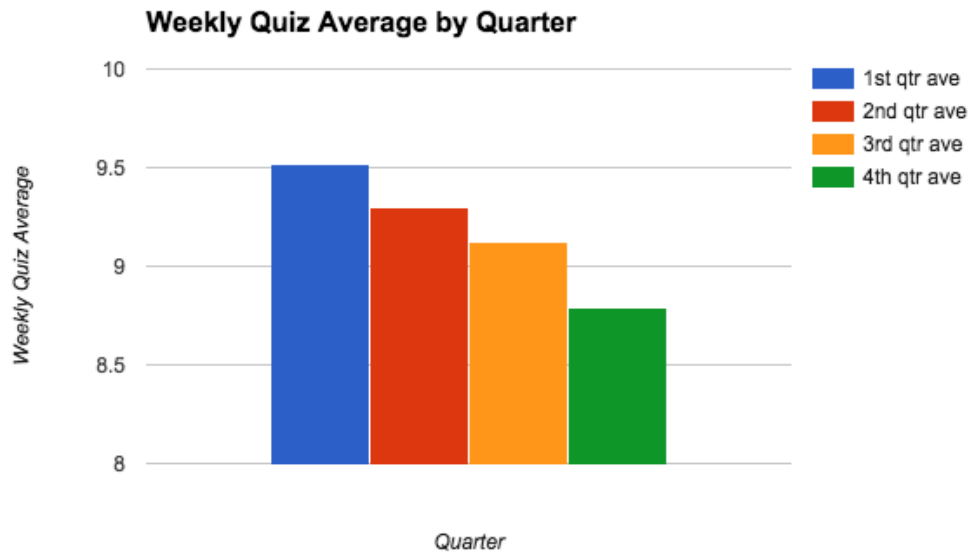
Discussion: You've probably never seen statistics on student performance in a math class before, which is why it is important to discuss the data! The decreasing trend over time is exactly what we expected. Two big factors are responsible for the trend: 1) There's more review of previously-learned concepts at the beginning, so it's easier and 2) student effort tends to decrease the closer you get to the end of the year!

What we had hoped for was a Practice Set average above 85%, and that was achieved in all 4 quarters! 85% is a good cutoff for determining whether students are understanding, and retaining most of the concepts learned.

Note also the high first quarter average. Because Shormann Math is built on John Saxon's method of integrating geometry and algebra, students using Shormann Prealgebra, Saxon Math 8/7 or Saxon Algebra ½ will be most comfortable starting Shormann Math. However, not all beta-test students used Saxon previously, so the high first quarter average is a good indication that students who successfully completed any pre-algebra course should do just fine in Shormann Math.

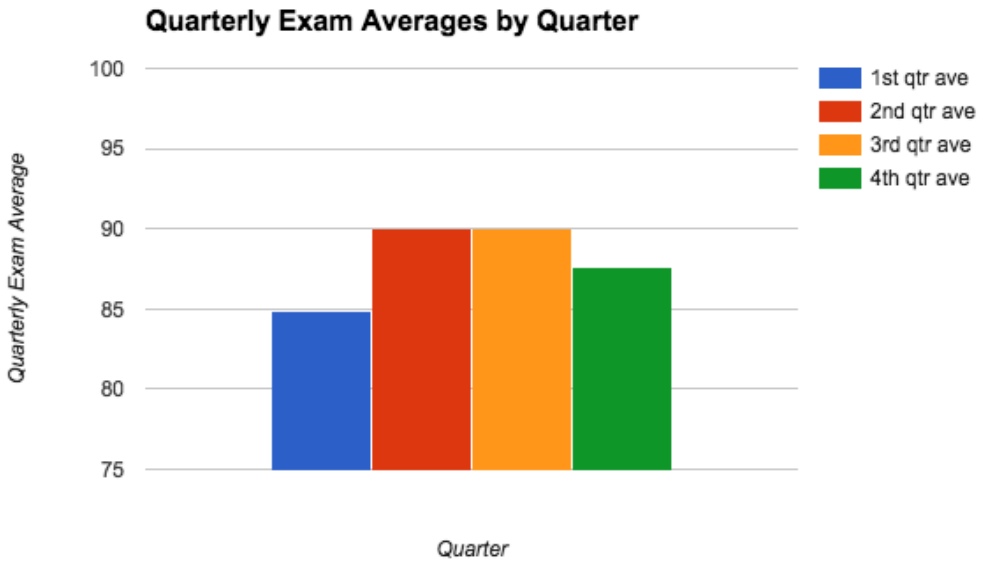
Weekly Quizzes

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Discussion: Weekly Quizzes show a similar trend to the Practice Sets, challenging the students more as the year progressed. A score of 8 out of 10 or higher is a good indication of whether students understood the lessons covered that week. We are pleased that scores were well above this in all four quarters!

Quarterly Exams



Discussion: Notice the Quarterly Exams do not follow the same trend as Practice Sets or Weekly Quizzes, with Quarter 1 having the lowest average. And this is where beta-testing a new product is so valuable. We realized that we were asking a lot for 9th-grade level students, most of which had never taken a cumulative exam like this. The solution? Practice exams! Just like when learning a sport, a musical

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instrument, etc., good practice results in good performance. The beta-test students clearly performed best on first quarter Practice Sets and Quizzes. Most likely, if they were given practice exams prior to their quarterly exam 1, this would have been their highest exam average. Now, all quarterly exams have two practice exams that students use to study for their actual exam.

85%+ is an indicator of good retention and understanding of concepts covered in a quarter. For all 4 quarters, student averages were at, or well above 85%. Because of Shormann Math's format of continual review, we are basically asking students to be responsible for "all their math, all the time." These results show that, on average, students are responding very well!

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Scope & Sequence

For Shormann Algebra 1 with Integrated Geometry

To jump to the Course Sequence, click here: Course Sequence

Number (Arithmetic)
Compare and order integers and positive rational numbers
Represent squares and square roots using geometric models
Use models to add, subtract, multiply and divide integers and connect the actions of algorithms
Simplify numerical expressions involving order of operations and exponents
Select and use appropriate operations to solve problems and justify the selections
History of number, where arithmetic symbols come from, other numeral systems
Operations with whole number exponents
Operations with fractional exponents
Operations with scientific notation
Logarithm means exponent
Subsets of Real Numbers
Consecutive Integer
The complex plane
Prime and numbers
Odd and even numbers
Factors and divisibility
Absolute value and order
Arithmetic word problems (including percent, ratio, and proportion)
Elementary number theory
Ratio (Fractions)
Define ratio, Greek's idea of comparison (rational), connect to other areas like language, unity/diversity

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Greek's discovery of square root of 2 and problems they had
History of pi, golden ratio, etc.
Convert between fractions, decimals, percents and whole numbers
Represent multiplication and division involving fractions and decimals by using concrete models, pictures, words and numbers
Use addition, subtraction, multiplication and division to solve problems involving fractions and decimals
Use division to find rates and ratios in proportional relationships such as speed, density, price, recipes, and student-teacher ratio
Estimate and find solutions to application problems involving percent
Estimate and find solutions to application problems involving proportional relationships such as similarity, scaling, unit costs, and related measurement units.
Rational and irrational numbers
Applications from algebra and geometry
Rational and radical equations
Direct and inverse variation
Square roots and approximations
Algebra
Word games like Sawyer's "bag of stones" trick to bridge algebra and arithmetic; history and etymology of algebra
Generate algebraic formulas involving conversions, perimeter, area, circumference, volume, and scaling
Given a situation, the student looks for patterns and represents generalization algebraically
Student uses the commutative, associative, distributive, properties to simplify algebraic expressions
Factoring Polynomials
Expanding Polynomials
Additions with algebraic expressions
Subtraction with algebraic expressions
Multiplication with algebraic expressions
Combined operations with algebraic expressions

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Operations with Variable exponents
Operations with combined operations
Use concrete models to solve equations and use symbols to record actions
Formulate a possible problem situation when given a simple equation
Use symbols to represent unknowns and variables
The student finds specific function values, simplifies polynomial expressions, transforms and solves equations, factors as necessary in problem situations
Quadratic equations, standard form and factoring
Finding roots of quadratic equations
Quadratic formula
Absolute value equations
Creating systems of equations from word problems
Nonstandard algebraic equations and solutions
Modeling functions numerically
Modeling functions symbolically
Modeling functions verbally
Finding domain and range from functions
Evaluating functions
Substitution and simplifying algebraic expressions
Using variables to express functional relationships
Elimination (systems of equations)
Geometry
Euclid, axioms, postulates, and deductive reasoning
Euclid, theorems, proofs
Aristotle, logic, syllogisms
Use angle measurements to classify pairs of angles as complementary or supplementary
Use properties to classify shapes including triangles, quadrilaterals, pentagons, and circles

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Use properties to classify solids, including pyramids, cones, prisms and cylinders
Use critical attributes to define similarity
Sketch a solid when given the top, side, and front views
Make a net (two-dimensional model) of the surface area of a solid
Use geometric concepts and properties to solve problems in fields such as art and architecture
Make and verify conjectures about angles, lines, polygons, circles, and three-dimensional figures, choosing from a variety of approaches such as coordinate, transformational, or axiomatic
Determine if the converse of a conditional statement is true or false
Construct and justify statements about geometric figures and their properties
Use inductive reasoning to formulate a conjecture
Use deductive reasoning to prove a statement
Use numeric and geometric patterns to make generalizations about geometric properties, including properties of polygons, ratios in similar figures and solids, and angle relationships in polygons and circles
Use properties of transformations and their compositions to make connections between mathematics and the real world in applications such as tesselations or fractals
Identify and apply patterns from right triangles to solve problems, including special triangles (45- 45-90, 30-60-90) and triangles whose sides are Pythagorean triples
Describe and draw cross sections and other slices of three-dimensional objects
Use nets to represent and construct three dimensional objects
Use top, front, side and corner views of three-dimensional objects to create accurate and complete representations and solve problems
Properties of triangles, circles and rectangles
Special properties of isosceles, equilateral, and right triangles
Concept of proof and proof technique
Triangle congruency
Triangle proofs
Construction
Analytical Geometry

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Descartes and Fermat and history of analytical geometry
Rectangular Coordinate System
Locate and name points on a coordinate plane using ordered pairs of integers
Finding the slope of a line
Linear equations
Identify and sketch the general forms of linear (y=x) parent functions
Parallel and perpendicular lines
Graphing systems of linear equations
Functions and relations
Modeling functions graphically
Finding domain and range from graphs
Graphs and intercepts
Graphing functions
Describe independent (input) and dependent (output) quantities in functional relationships
Use data sets to determine functional (systematic) relationships between quantities
Describe functional relationships for given problem situations and write equations or inequalities to answer questions arising from the situations
Represent relationships among quantities using concrete models, tables, graphs, diagrams, verbal descriptions, equations, and inequalities
Interpret and makes inferences from functional relationships
For a variety of situations, the identify mathematical domains and ranges and determine reasonable domain and range values for given situations
Interpret situations in terms of given graphs or create situations that fit graphs
In solving problems, the student collects and organizes data, makes and interprets scatterplots, and models, predicts, and makes decisions and critical judgments
Determine whether or not given situations can be represented by linear or nonlinear functions
Determines the domain and range values for which linear or nonlinear functions make sense for given situations
Use combinations of algebraic, tabular, graphical, or verbal descriptions of linear functions

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Analyze situations involving linear functions and formulate linear equations and inequalities to solve a problem
Investigate methods for solving linear equations and inequalities using concrete models, graphs, and the properties of equality, select a method, and solve the equations and inequalities
For given contexts, interpret and determine the reasonableness of solutions to linear equations and inequalities
Analyze situations and formulates systems of linear equations to solve problems
Solve systems of linear equations using concrete models, graphs, tables, and algebraic methods
For given contexts, interpret and determine the reasonableness of solutions to systems of linear equations
Use one and two-dimensional coordinate systems to represent points, lines, line segments, and figures
Use slopes and equations of lines to investigate geometric relationships, including parallel lines, perpendicular lines, and special segments of triangles and other polygons.
Identify graphic and symbolic forms of the following nonlinear functions: absolute value, quadratic, square root, exponential, cubic, reciprocal
Measurement
The Lord abhors dishonest weights and measures (Proverbs 20:10, etc.)
Solve application problems involving estimation and measurement. Estimate measurements and solve application problems involving length, area, and volume
Volume of box, cube, cylinder, prism, sphere
Total surface area
Surface area and volume of more complex shapes like pipes and washers
Length conversions
Area conversions
Volume conversions
Foreign currency conversions
Gas law problems
Evaluating scientific formulas
Density as a direct relationship
Evaluating financial formulas (interest rate, savings and debt)

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Trigonometry
Distance and midpoint formulas
Right angle relationships
Sine, cosine, tangent
Pythagorean theorem
Polar coordinates
Vectors and parallelogram law (Whitehead)
Visualize location of resultant vector by applying Parallelogram Law
Periodicity
Unit circle
Calculus
Archimedes, Newton, Euler and Leibniz, history of calculus
Faster/slower, speed and rate, acceleration
Limits, tangent
Slope and area under a curve, connecting calculus to algebra/geometry fundamentals
Students develop the concept of slope as rate of change and determine slopes from graphs, tables, and algebraic representations
Interpret the meaning of slope and intercepts in situations using data, symbolic representations, or graphs
Investigate, describe, and predict the effects of changes in m and b on the graph y=mx+b
Graph and write equations of lines given characteristics such as two points, a point and a slope, or a slope and y-intercept
Determine the intercepts of linear functions from graphs, tables, and algebraic representations
Interpret and predict the effects of changing slope and y-intercept in applied situations
Relate direct variation to linear functions and solves problems involving proportional change
Derivatives of f(x)=x^2
Integrals I (summing area under curve)
Ratios as rates

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Statistics
Gauss and bell curve
Computation of probabilities of simple and compound events
Find approximate probability of a compound event through experimentation
Select and use an appropriate representation for presenting collected data and justify the selection
Make inferences and convincing arguments based on an analysis of given or collected data
Describe a set of data using mean, median, mode, and range
Choose among mean, median, mode, or range to describe a set of data and justify the choice for a particular solution
Data interpretation and representation: tables; bar, line, circle graphs; pie charts, scatterplots, histograms, with and without margin of error
Chi square
Linear regression
Using Punnett squares
Hardy-Weinberg equilibrium
Computer Math
Binary system, connection to computer screen and pixels
Difference between discrete and continuous and analogy to one and many
Describe relationship between terms in a sequence and their positions in sequence
Select and use appropriate representations for presenting collected data and justify the selection
Sequences
Series
2 x 2 matrices, operations

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Course Sequence

For Shormann Algebra 1 with Integrated Geometry

Lesson 1 Numbers I: What is Mathematics? - Mathematical Periods in History - Thinking About Numbers

Lesson 2 Numbers II: Origins - Types of numbers, number lines - Arithmetic Review

Lesson 3 Numbers III: Operations - Absolute Value - Order of operations and exponents

Lesson 4 Ratios I: History - Rational and Irrational Numbers - Operations With Fractions and Decimals

Week 1 Quiz

Lesson 5 Ratios II: Fraction/Decimal/Percent - Operations With Fractions and Decimals

Lesson 6 Ratios III: Rate - Similarity and Scaling

Lesson 7 Algebra I: What is Algebra? - Basic Algebra Rules

Lesson 8 Algebra II: Word Problems - Simplifying Algebraic Expressions

Week 2 Quiz

Lesson 9 Geometry I: Euclid, Postulates, and Deductive Reasoning - Similarity and Congruence

Lesson 10 Geometry II: Inductive Reasoning, Construction - Deductive Reasoning and Proofs

Lesson 11 Geometry III: More Geometric Properties, Transformations - Logic

Lesson 12 Geometry IV: Pythagorean Theorem - Application of Other Rules and Definitions

Week 3 Quiz

Lesson 13 Geometry V: Solids, Nets - Geometry in Art and Architecture, Nature

Lesson 14 Analytical Geometry I: Foundations of Analytical Geometry - The Coordinate Plane

Lesson 15 Analytical Geometry II: Functions (without graphing) - Domain and Range

Lesson 16 Analytical Geometry III: Functions with graphing

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Week 4 Quiz

Lesson 17 Analytical Geometry IV: More on Linear Functions - Systems of Equations

Lesson 18 Measurement: Unit conversions - Perimeter, Area, and Volume

Lesson 19 Trigonometry: Trigonometry Basics (Calculator required)

Week 5 Quiz

Lesson 20 Calculus I: What is Calculus? - Infinitesimals and Limits

Lesson 21 Calculus II: The Derivative - Calculus and the Trinity

Lesson 22 Calculus III: More on Derivatives and Tangent Lines - Applications - The Integral

Week 6 Quiz

Lesson 23 Statistics I: Collecting Data, Making Tables and Histograms - Mean, Median, Mode, Range

Lesson 24 Statistics II: Probability, Simple and Compound Events - Linear Regression and Best Fit

Lesson 25 Computer Math: Pixels, Bits, and Binary Numeral System - Sequences and Series - Matrices

Week 7 Quiz

Exam 1, Week 8: Practice Exam 1.1 & 1.2, Quarterly Exam 1

Lesson 26 Arithmetic Word Problems: Word Problems and Data from a Chart

Lesson 27 Decimal and Percent Word Problems: Decimal Word Problems - Percent Word Problems

Lesson 28 Proportion Word Problems: Review: Lesson 6B

Lesson 29 Standardized Test Questions(ACT, SAT, CLEP): Review: Lessons 2-25

Week 9 Quiz

Lesson 30 Operations With Whole Numbers and Exponents

Lesson 31 Operations With Fractional Exponents

Lesson 32 Operations With Variable Exponents: Review: Lesson 7, 30, 31

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Lesson 33 Operations With Scientific Notation: Converting to and from Scientific Notation

Week 10 Quiz

Lesson 34 Power Rule, Product of Square Roots Rule: Power Rule - Product of Square Roots Rule

Lesson 35 Addition of Like Terms: Review: Lesson 7 and 8 on simplifying algebraic expressions

Lesson 36 Subtraction of Like Terms: Review: Lesson 7 and 8 on simplifying algebraic expressions

Lesson 37 Multiplication With Algebraic Expressions: Expanding

Week 11 Quiz

Lesson 38 Combined Operations With Algebraic Expressions

Lesson 39 Simplifying Algebraic Fractions: Canceling and Factoring - Simplifying Complex Fractions

Lesson 40 Circles and Angles - Radical Expressions and Addition of Like Terms

Lesson 41 Area, Surface Area: Area of Shaded Regions and Sectors

Week 12 Quiz

Lesson 42 Volume of Right Solids with Holes, Total Surface Area:

Lesson 43 Special Right Triangles, Pythagorean Theorem Applications

Lesson 44 Length Conversions, Scientific Notation on a Calculator

Lesson 45 Area and Volume Conversions: Area Conversions - Volume Conversions

Week 13 Quiz

Lesson 46 Solving Multivariable Equations: Review: Mainly lessons 7, 8, 37, and 39A

Lesson 47 Solving Rational Equations: Review: Lesson 4 on least common multiple (LCM), Lessons 7, 46

Lesson 48 Creating Linear Equations from Two Points and from Word Problems

Lesson 49 Parallel and Perpendicular Lines: Parallel Lines - Perpendicular Lines

Lesson 50 Expanding Squared Binomials, Euler Word Problems

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Week 14 Quiz

Exam 2, Week 15: Practice Exam 2.1 & 2.2, Quarterly Exam 2

Lesson 51 Factoring Trinomials: Review: Lessons 8, 39, 50

Lesson 52 Modeling Functions through Graphical Representation - Functions and Relations

Lesson 53 Numerical Applications with Functions - Numerical Representation

Lesson 54 Modeling Functions Symbolically: Review: Lessons 15, 16, 52

Week 16 Quiz

Lesson 55 Modeling Functions Verbally: Review: Lessons 15, 16, 48, 52, 54

Lesson 56 The Algebra of Functions: Review: Lessons 15, 16, 52-55

Lesson 57 Horizontal and Vertical Shifts in Functions, Domain and Range from Graphs

Lesson 58 Distance Between Two Points, More on Simplifying Radical Expressions

Week 17 Quiz

Lesson 59 Inverse Trigonometric Functions - Polar Coordinates and Vectors

Lesson 60 Reflections of Functions, Evaluating Scientific Formulas

Lesson 61 Solving Systems of Equations from Graphs, Finding Optimums from Graphs

Lesson 62 More About Simplifying Complex Fractions: Review Lesson 39

Week 18 Quiz

Lesson 63 Simple Probability, Conditional Probability: Simple Probability - Conditional Probability

Lesson 64 Using Substitution to Solve Systems of Equations: Review: Lesson 7, 15, 17, 56, 61.

Lesson 65 Limits, Part I: Review: Lesson 20.

Lesson 66 Circle Properties II, Concept of Proof and Proof Technique

Week 19 Quiz

Lesson 67 Proving Euclid's Proposition 2: Review: Lessons 9, 10, and 66.

Lesson 68 Triangle Congruency; Triangle Proofs: Triangle Congruency - Triangle Proofs

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Lesson 69 Interest Rate, Savings, and Debt: What Does the Bible Say About Savings and Debt?

Week 20 Quiz

Lesson 70 Using Elimination to Solve Systems of Equations: Review: Lessons 7, 61, 64

Lesson 71 More Rational and Radical Equations: Radical Equations - More on Rational Equations

Lesson 72 Direct and Inverse Variation: Direct Variation - Inverse Variation

Week 21 Quiz

Lesson 73 Nonstandard Solutions to Algebraic Equations: Review: Lessons 7, 64, 70

Lesson 74 Consecutive Integer Word Problems: Consecutive Integer Word Problems

Lesson 75 Quadratic Equations: Standard Form and Factoring: Standard Form of Quadratic Equations

Week 22 Quiz

Exam 3, Week 23: Practice Exam 3.1 & 3.2, Quarterly Exam 3

Lesson 76 Finding Roots of Quadratic Equations: Review: Lesson 75

Lesson 77 Punnett Squares; Hardy-Weinberg Equation: Punnett Squares - The Hardy-Weinberg Equation

Lesson 78 The Parallelogram Law and Resultant Vectors: Review: Lesson 59

Lesson 79 Logarithm Means Exponent: History of Logarithms - Logarithm Basics

Lesson 80 Transversals and Right Triangles; Logarithms on a Calculator

Week 24 Quiz

Lesson 81 Graphs and Intercepts: Graphs and Intercepts of Linear Functions - Nonlinear Functions

Lesson 82 Creating Systems of Equations from Word Problems: Review: Lessons 17, 64, 70

Lesson 83 Word Problems with Two Statements of Equality: Review: Lesson 82

Lesson 84 Uniform Motion Word Problems: Review: Lessons 6, 20, 60

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Week 25 Quiz

Lesson 85 Limits, Part II: Rejecting Infinitesimals: A Fool's Errand - Infinity as a Limit

Lesson 86 Gas Law Problems: Review: Lesson 60

Lesson 87 Data Interpretation and Representation: Review: Lessons 17, 23, 24, 26

Lesson 88 Sequences: Review: Lesson 25

Week 26 Quiz

Lesson 89 Periodicity: The Unit Circle - Vectors and Sign Changes

Lesson 90 Series: Arithmetic Series - Geometric Series

Lesson 91 Completing the Square: Review: Lessons 51, 75, 76

Lesson 92 The Quadratic Formula: Review: Lesson 91

Week 27 Quiz

Lesson 93 Integrals and Infinitesimals: Review: Lessons 20, 21, 22, 25, 90

Lesson 94 Linear Regression: Review: Lessons 16, 17, 24, 48

Lesson 95 The Complex Plane: Graphing Complex Numbers - Quadratic Equations and Complex Numbers

Lesson 96 Uniform Motion and Unequal Distances: Review: Lesson 84

Week 28 Quiz

Lesson 97 Absolute Value Equations: Review: Lessons 3, 52, 73, 81

Lesson 98 Construction, Part I: Review: Lessons 10, 67

Lesson 99 Absolute Value Inequalities: Review: Lessons 17, 97

Lesson 100 Chi Square: Review: Lessons 23, 24, 77, 94

Week 29 Quiz

Exam 4, Week 30: Practice Exam 4.1 & 4.2, Quarterly Exam 4

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Assignment Chart

For Shormann Algebra 1 with Integrated Geometry

Lesson				
1	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
2	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
3	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
4	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
Quiz 1	❑ Study	❑ Take Quiz	❑ Corrections	
5	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
6	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
7	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
8	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
Quiz 2	❑ Study	❑ Take Quiz	❑ Corrections	
9	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
10	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
11	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
12	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
Quiz 3	❑ Study	❑ Take Quiz	❑ Corrections	
13	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
14	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
15	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
16	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
Quiz 4	❑ Study	❑ Take Quiz	❑ Corrections	
17	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
18	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
19	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
Quiz 5	❑ Study	❑ Take Quiz	❑ Corrections	
20	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
21	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections

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Lesson				
22	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
Quiz 6	❑ Study	❑ Take Quiz	❑ Corrections	
23	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
24	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
25	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
Quiz 7	❑ Study	❑ Take Quiz	❑ Corrections	
Practice Exam 1.1	❑ Study	❑ Practice Exam 1.1	❑ Corrections	
Practice Exam 1.2	❑ Study	❑ Practice Exam 1.2	❑ Corrections	
Exam 1 (Attempt 1)	❑ Study	❑ Take Exam 1	❑ Corrections	
Exam 1 (Attempt 2)	❑ Study	❑ Take Exam 1	❑ Corrections	
26	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
27	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
28	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
29	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
Quiz 9	❑ Study	❑ Take Quiz	❑ Corrections	
30	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
31	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
32	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
33	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
Quiz 10	❑ Study	❑ Take Quiz	❑ Corrections	
34	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
35	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
36	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
37	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
Quiz 11	❑ Study	❑ Take Quiz	❑ Corrections	
38	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
39	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections

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Lesson				
40	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
41	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
Quiz 12	❑ Study	❑ Take Quiz	❑ Corrections	
42	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
43	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
44	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
45	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
Quiz 13	❑ Study	❑ Take Quiz	❑ Corrections	
46	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
47	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
48	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
49	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
50	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
Quiz 14	❑ Study	❑ Take Quiz	❑ Corrections	
Practice Exam 2.1	❑ Study	❑ Practice Exam 2.1	❑ Corrections	
Practice Exam 2.2	❑ Study	❑ Practice Exam 2.2	❑ Corrections	
Exam 2 (Attempt 1)	❑ Study	❑ Take Exam 2	❑ Corrections	
Exam 2 (Attempt 2)	❑ Study	❑ Take Exam 2	❑ Corrections	
51	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
52	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
53	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
54	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
Quiz 16	❑ Study	❑ Take Quiz	❑ Corrections	
55	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
56	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
57	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
58	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections

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Lesson				
Quiz 17	❑ Study	❑ Take Quiz	❑ Corrections	
59	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
60	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
61	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
62	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
Quiz 18	❑ Study	❑ Take Quiz	❑ Corrections	
63	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
64	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
65	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
66	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
Quiz 19	❑ Study	❑ Take Quiz	❑ Corrections	
67	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
68	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
69	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
Quiz 20	❑ Study	❑ Take Quiz	❑ Corrections	
70	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
71	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
72	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
Quiz 21	❑ Study	❑ Take Quiz	❑ Corrections	
73	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
74	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
75	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
Quiz 22	❑ Study	❑ Take Quiz	❑ Corrections	
Practice Exam 3.1	❑ Study	❑ Practice Exam 3.1	❑ Corrections	
Practice Exam 3.2	❑ Study	❑ Practice Exam 3.2	❑ Corrections	
Exam 3 (Attempt 1)	❑ Study	❑ Take Exam 3	❑ Corrections	
Exam 3 (Attempt 2)	❑ Study	❑ Take Exam 3	❑ Corrections	

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Lesson				
76	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
77	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
78	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
79	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
80	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
Quiz 24	❑ Study	❑ Take Quiz	❑ Corrections	
81	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
82	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
83	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
84	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
Quiz 25	❑ Study	❑ Take Quiz	❑ Corrections	
85	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
86	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
87	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
88	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
Quiz 26	❑ Study	❑ Take Quiz	❑ Corrections	
89	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
90	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
91	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
92	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
Quiz 27	❑ Study	❑ Take Quiz	❑ Corrections	
93	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
94	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
95	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
96	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
Quiz 28	❑ Study	❑ Take Quiz	❑ Corrections	
97	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
98	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
99	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections

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Lesson				
100	❑ Reading	❑ Lecture	❑ Practice Set	❑ Corrections
Quiz 29	❑ Study	❑ Take Quiz	❑ Corrections	
Practice Exam 4.1	❑ Study	❑ Practice Exam 4.1	❑ Corrections	
Practice Exam 4.2	❑ Study	❑ Practice Exam 4.2	❑ Corrections	
Exam 4 (Attempt 1)	❑ Study	❑ Take Exam 4	❑ Corrections	
Exam 4 (Attempt 2)	❑ Study	❑ Take Exam 4	❑ Corrections	

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